

Clean Version Of The Pending Claims Under 37 C.F.R. § 1.121(c)(3):

Claims 1-20, now pending, are submitted below in accordance with 37 C.F.R. §1.121(c)(3), which presents a clean version of the entire set of pending claims.

1. (Unchanged) A method for inspecting an encrypted data stream being transferred over a network between two endpoints, the data stream being encrypted using a session key known to both endpoints, the method comprising:

securely transferring the session key from one of the endpoints to an intermediary having access to the encrypted data stream;

decrypting the encrypted data stream at the intermediary using the session key; and

inspecting the data stream following decryption.

2. (Unchanged) A method as recited in claim 1, wherein securely transferring comprises:

encrypting the session key using a public key associated with the intermediary; and

sending the encrypted session key to the intermediary.

3. (Amended Once) A method as recited in claim 1, wherein securely transferring comprises:

encrypting the session key using a public key associated with the intermediary;

signing the encrypted session key using a private key associated with the one of the endpoints; and

1 sending the signed and encrypted session key to the intermediary.

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3 4. (Unchanged) A method as recited in claim 1, further comprising
4 storing the data stream at the intermediary.

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6 5. (Unchanged) A method for inspecting an encrypted data stream being
7 transferred over a network between two endpoints and via an intermediary, the
8 data stream being encrypted using a session key known to both endpoints, the
9 method comprising:

10 storing a public key from a public/private key pair associated with one of
11 the endpoints at a key storage;

12 storing a public key from a public/private key pair associated with the
13 intermediary at the key storage;

14 obtaining, at said one endpoint, the intermediary's public key from the key
15 storage;

16 encrypting, at said one endpoint, the session key using the intermediary's
17 public key to produce an encrypted session key;

18 encrypting, at said one endpoint, the encrypted session key using a private
19 key from the public private key pair associated with said one endpoint to produce a
20 signed encrypted session key;

21 passing the signed encrypted session key to the intermediary;

22 obtaining, at the intermediary, the one endpoint's public key from the key
23 storage;

24 decrypting, at the intermediary, the signed encrypted session key using the
25 one endpoint's public key to return the encrypted session key;

1 decrypting, at the intermediary, the encrypted session key using the
2 intermediary's private key to return the session key; and
3 using the session key at the intermediary to decrypt the encrypted data
4 stream.

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6 6. (Unchanged) In a network system in which an encrypted data stream
7 is transferred over a network between two endpoints and via an intermediary, the
8 data stream being encrypted using a session key known to both endpoints,
9 computer-readable media at one of the endpoints and at the intermediary storing
10 computer-executable instructions for performing the method as recited in claim 5.

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12 7. (Amended Once) In a network system having an internal client that
13 exchanges encrypted data with an external client over a network and through a
14 firewall intermediate of the internal and external clients, the encrypted data being
15 encrypted using a session key known to the internal and external clients, a method
16 executed at the firewall comprising:

17 receiving an encrypted and signed session key from the internal client, the
18 encrypted and signed session key bearing a digital signature of the internal client;
19 authenticating the digital signature as belonging to the internal client;
20 decrypting the session key; and
21 decrypting the encrypted data being exchanged between the internal and
22 external clients using the session key.

1 8. (Unchanged) A method as recited in claim 7, wherein the encrypted
2 and signed session key is encrypted using a public key from a public/private key
3 pair associated with the firewall, and the decrypting comprises decrypting the
4 session key using a private key from the public/private key pair.
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6 9. (Unchanged) A method as recited in claim 7, further comprising
7 inspecting the data in an unencrypted form.
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9 10. (Unchanged) A method as recited in claim 7, further comprising
10 storing the data in an unencrypted form.
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12 11. (Unchanged) In a network system having an external client that
13 exchanges encrypted data with an external client over a network and through a
14 firewall intermediate of the internal and external clients, the encrypted data being
15 encrypted using a session key known to the internal and external clients, a
16 computer-readable medium resident at the firewall storing computer-executable
17 instructions for performing method as recited in claim 7.
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19 12. (Amended Once) A network system comprising:
20 an internal client device and an external client device configured to
21 communicate encrypted data over a network using virtual private network
22 communication, the data being encrypted using a session key;
23 an intermediary device having access to the encrypted data being
24 communicated between the internal client device and the external client device;
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1 the internal client device being configured to securely transfer the session
2 key to the intermediary device; and

3 the intermediary device being configured to decrypt the data using the
4 session key and to inspect the data.]

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6 13. (Amended Once) A network system as recited in claim 12, wherein
7 the internal client device encrypts the session key prior to sending it to the
8 intermediary device.

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10 14. (Amended Once) A network system as recited in claim 12, wherein
11 the internal client device encrypts and signs the session key prior to sending it to
12 the intermediary device.

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14 15. (Amended Once) A network system as recited in claim 12, wherein
15 the intermediary device stores the data in unencrypted form.

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17 16. (Amended Once) A software architecture for a network system
18 having two endpoints that exchange encrypted data over a network and through an
19 intermediary, the encrypted data being encrypted using a session key known to the
20 endpoints, comprising:

21 endpoint-resident code stored on computer readable media and executable
22 on a processor to encrypt the session key using a public key from a public/private
23 key pair associated with the intermediary and to sign the encrypted session key
24 with a digital signature, the endpoint-resident code being capable of sending the
25 signed and encrypted session key to the intermediary; and

1 intermediary-resident code stored on computer readable media and
2 executable on the processor to authenticate the digital signature and decrypt the
3 encrypted session key using a private key from the public/private key pair
4 associated with the intermediary, the intermediary-resident code using the session
5 key to decrypt the encrypted data as it is being exchanged between the two
6 endpoints.

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8 17. (Amended Once) A software architecture as recited in claim 16,
9 wherein the intermediary-resident code inspects the data in unencrypted form.
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a' 11 18. (Amended Once) A software architecture as recited in claim 16,
12 wherein the intermediary-resident code stores the data in unencrypted form.
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14 19. (Amended Once) In a network system having an internal client that
15 exchanges encrypted data with an external client over a network and through a
16 firewall intermediate of the internal and external clients, the encrypted data being
17 encrypted using a session key known to the internal and external clients, computer-
18 readable media distributed at the internal client and the firewall storing computer-
19 executable instructions for:

20 encrypting the session key at the internal client;

21 signing the encrypted session key with a digital signature associated with
22 the internal client;

23 passing the signed and encrypted session key to the intermediary;

24 authenticating, at the intermediary, the digital signature of the internal
25 client;

1 decrypting the session key at the intermediary;
2 decrypting, at the intermediary, the encrypted data using the session key;
3 and
4 inspecting the data in route between the internal and external clients.
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6 20. (Unchanged) In a network system in which an encrypted data stream
7 is transferred over a network between two endpoints and via an intermediary, the
8 data stream being encrypted using a session key known to both endpoints,
9 computer-readable media at one of the endpoints and at the intermediary storing
10 computer-executable instructions for:

11 securely transferring the session key from one of the endpoints to an
12 intermediary having access to the encrypted data stream;

13 decrypting the encrypted data stream at the intermediary using the session
14 key; and

15 inspecting the data stream following decryption.
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